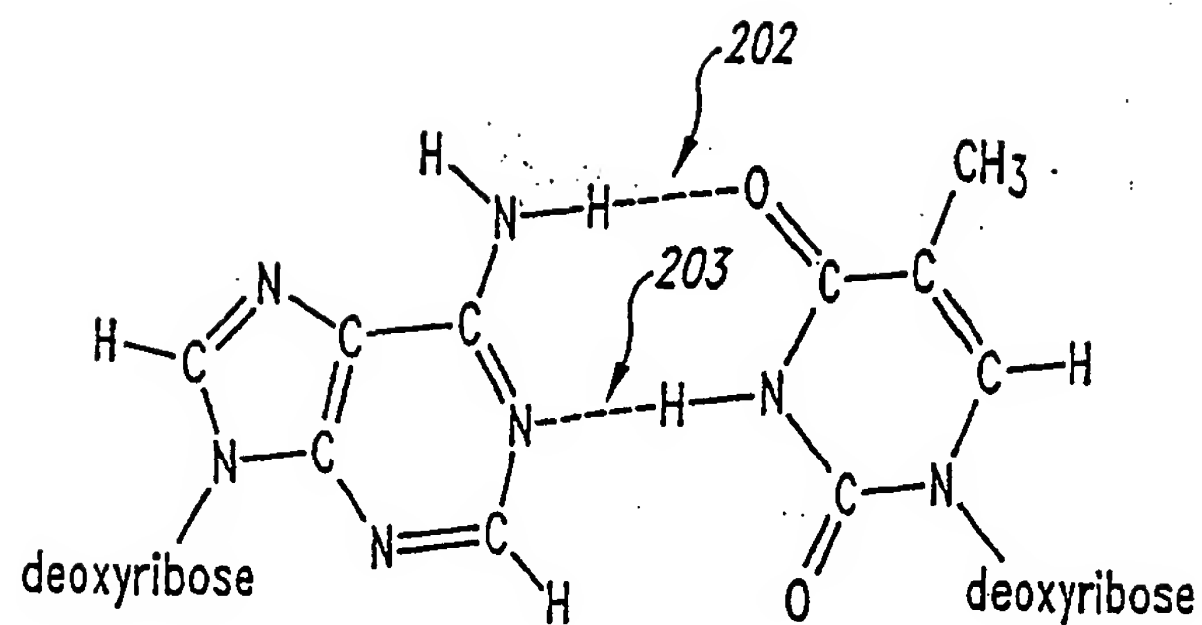
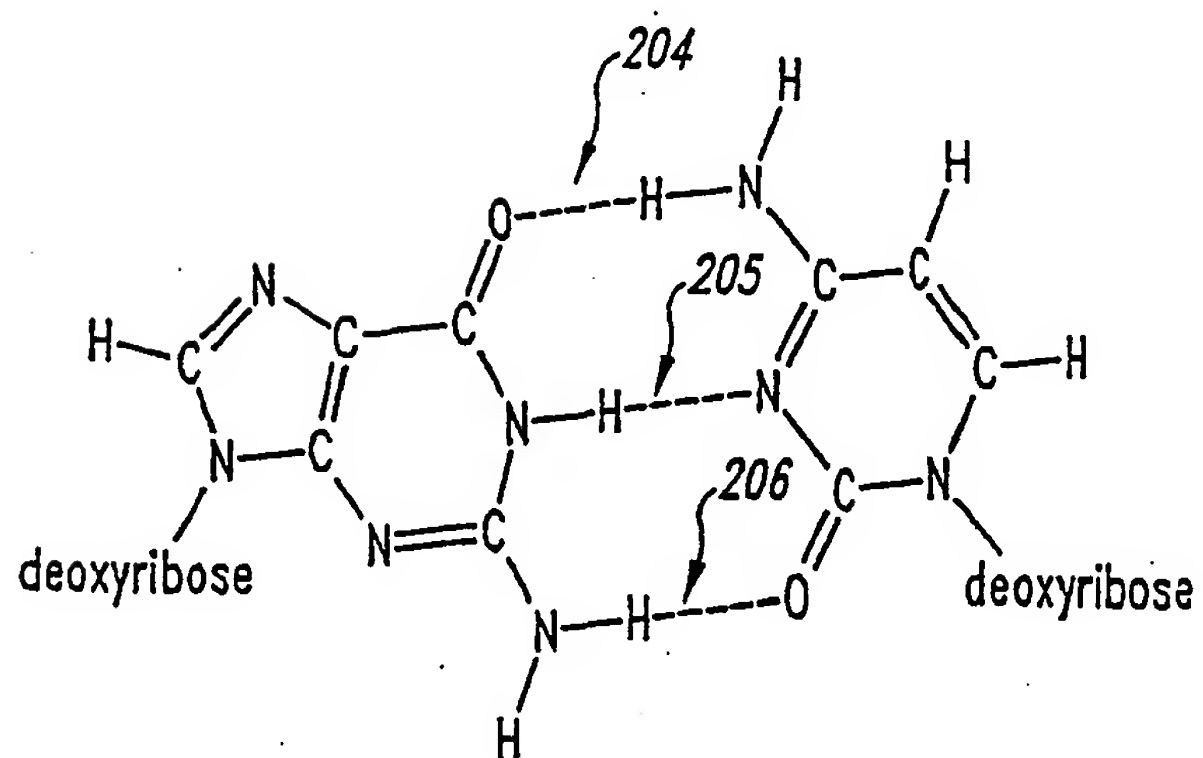


The diagram illustrates a pentanucleotide (100) composed of five nucleotides (102, 104, 106, 108, 120) linked by phosphate groups (110, 111, 112, 113, 114, 115). The sugar-phosphate backbone is shown with the 5' and 3' ends. The nucleotides are linked by their 3' and 5' carbons. The bases and their substituents are: 102 (Adenine, 122), 104 (Thymine, 104), 106 (Cytosine, 106), 108 (Adenine, 108), and 120 (Adenine, 120). The phosphate groups are labeled 110, 111, 112, 113, 114, and 115. The sugar rings are labeled 124, 126, 126, 126, and 120. The 5' end is labeled 118 and the 3' end is labeled 120.

*Fig. 1*

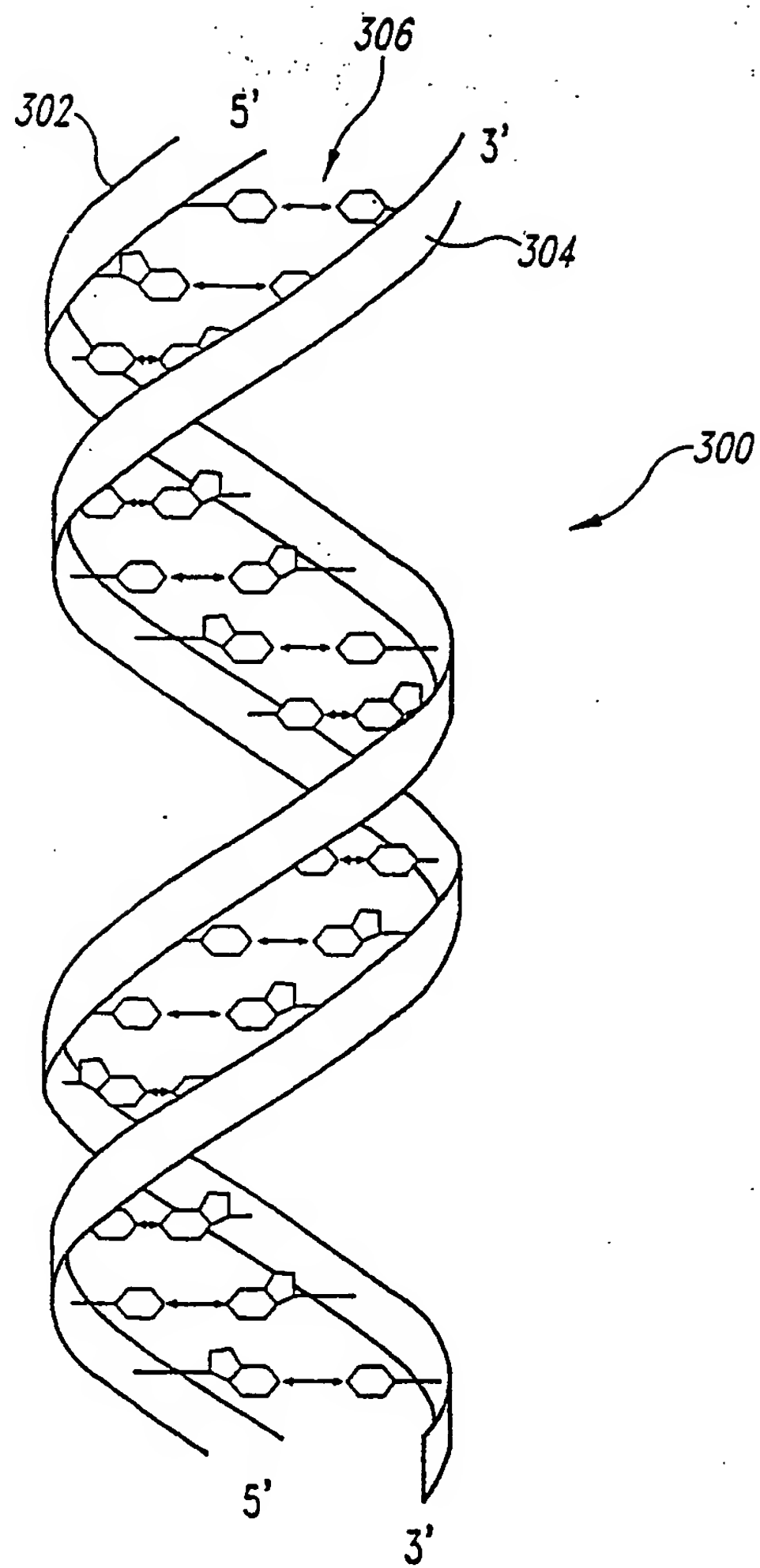


*Fig. 2A*



*Fig. 2B*

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*Fig. 3*

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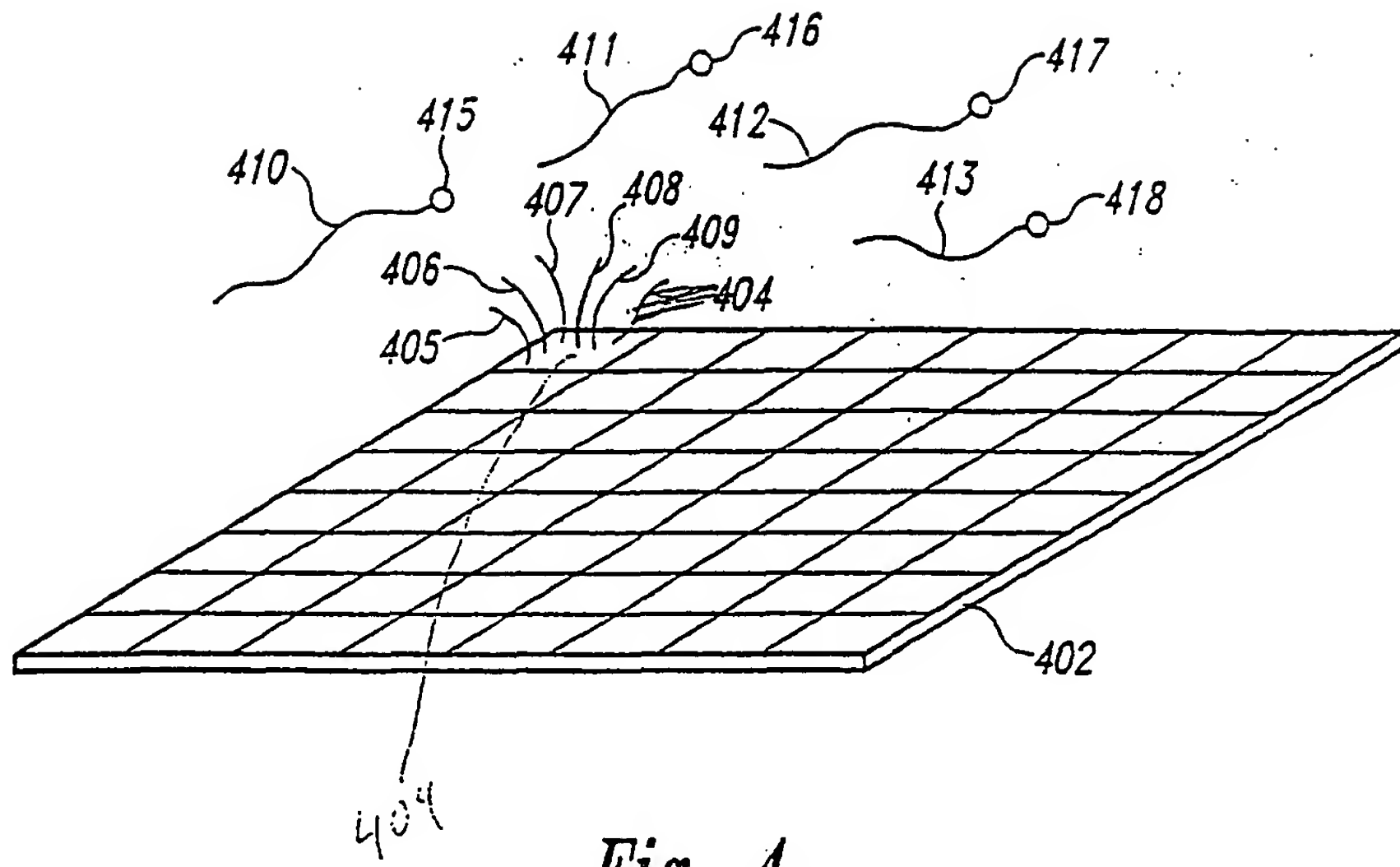


Fig. 4

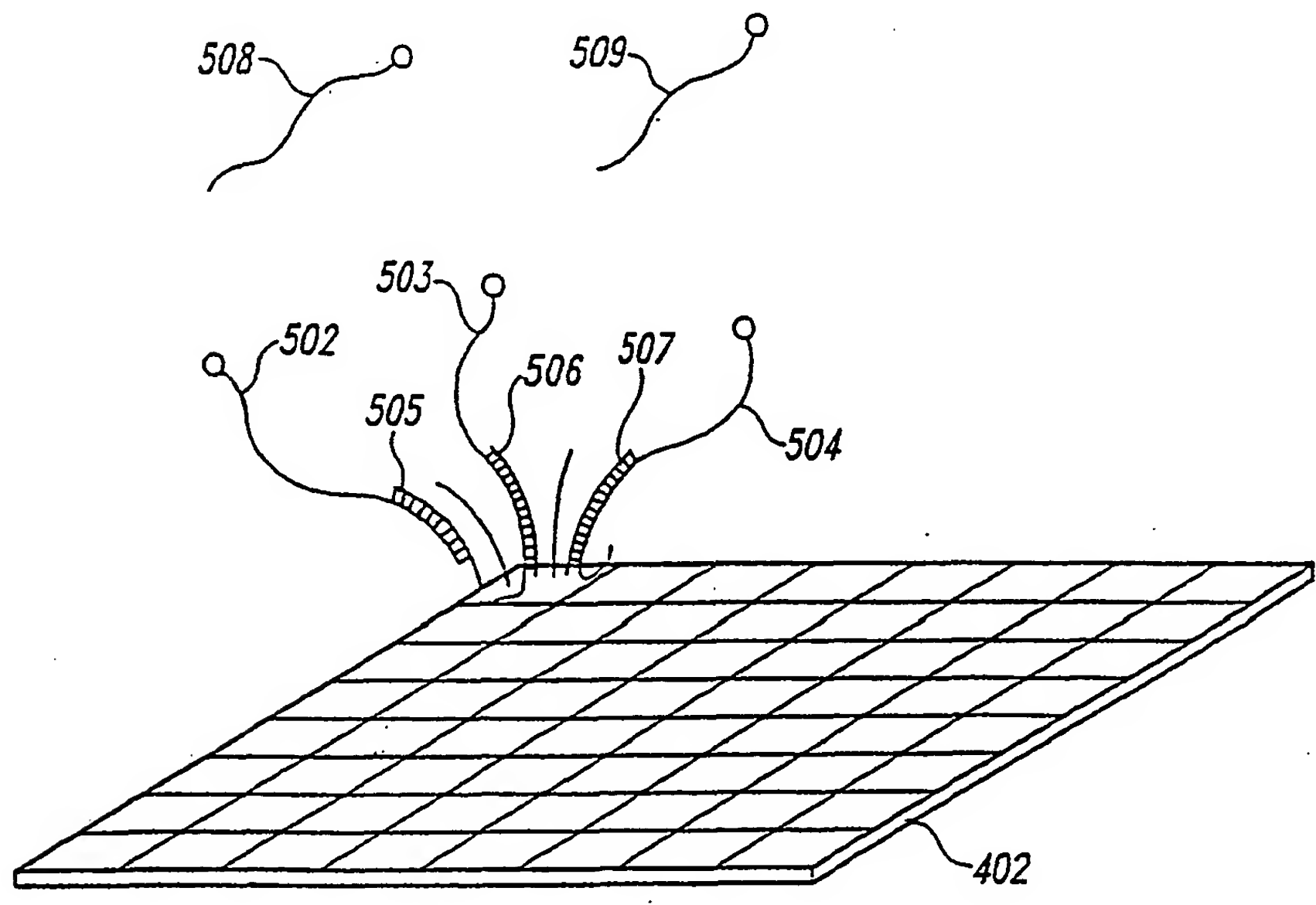
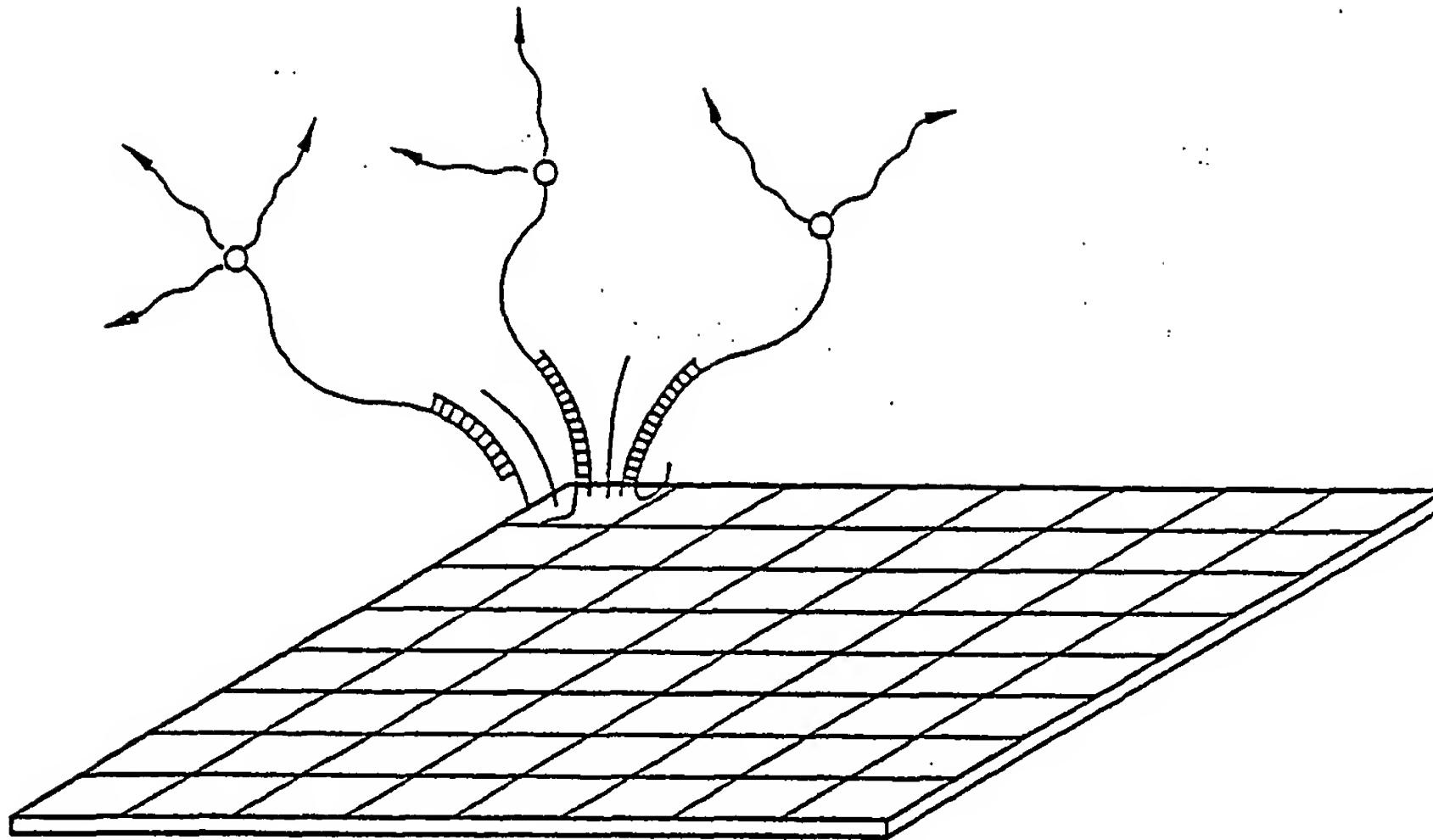
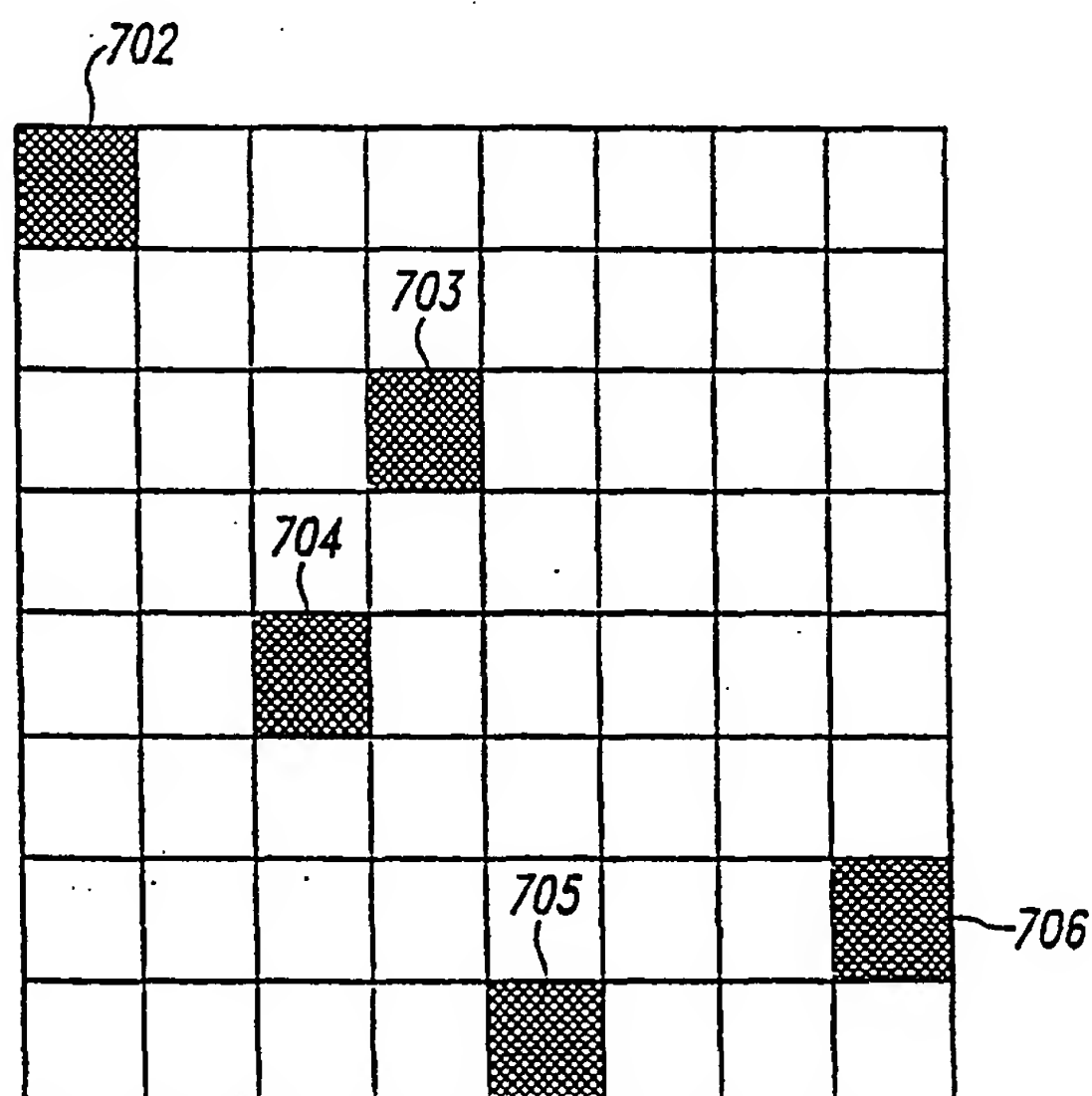


Fig. 5



*Fig. 6*



*Fig. 7*

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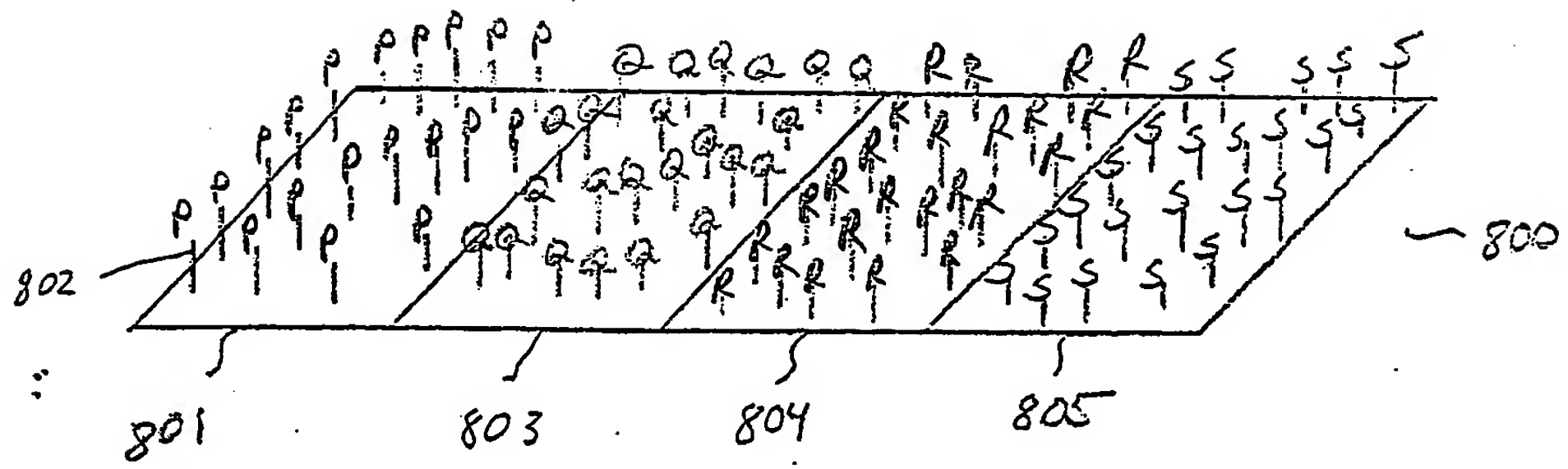


Figure 8A

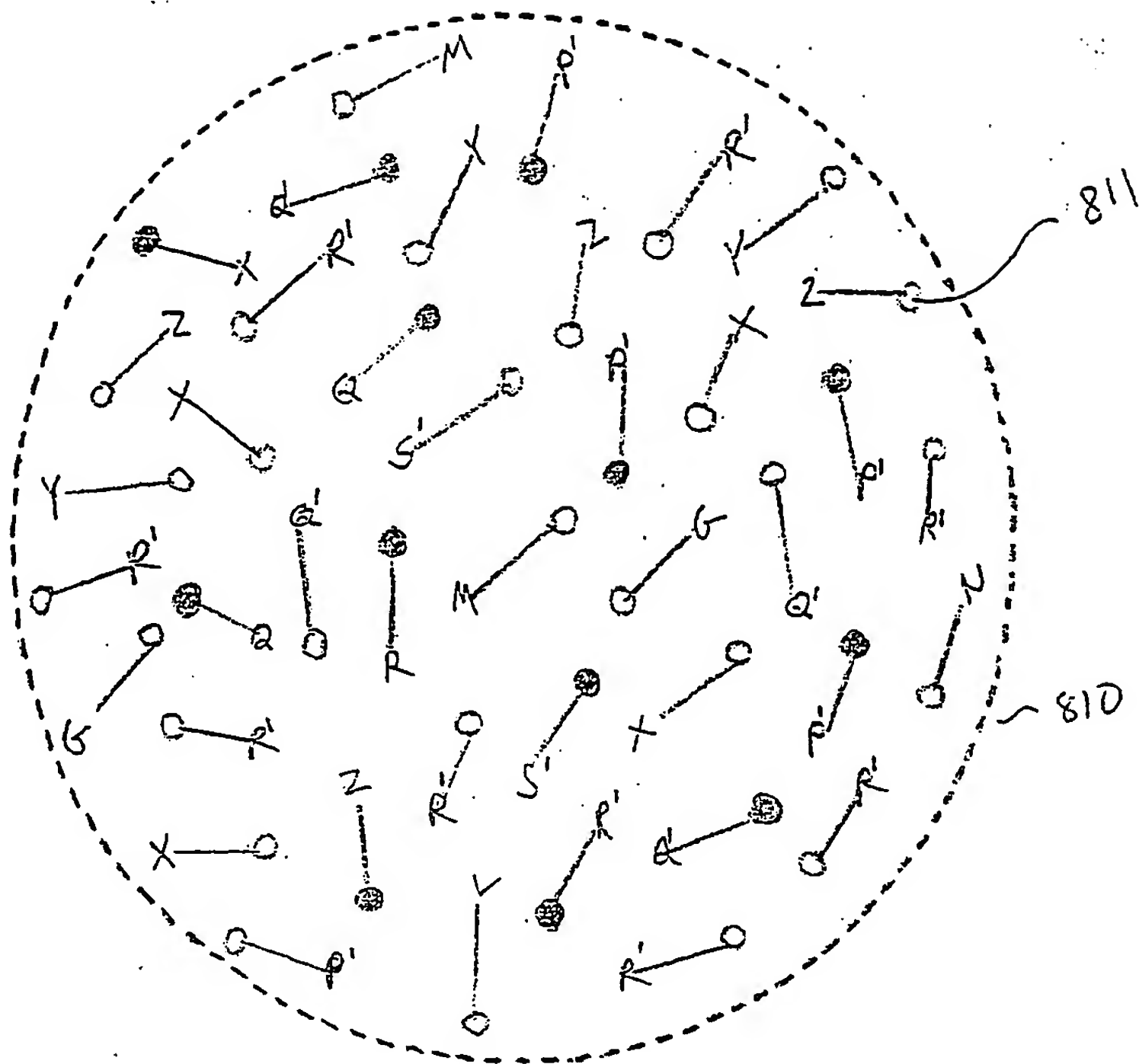


Figure 8B

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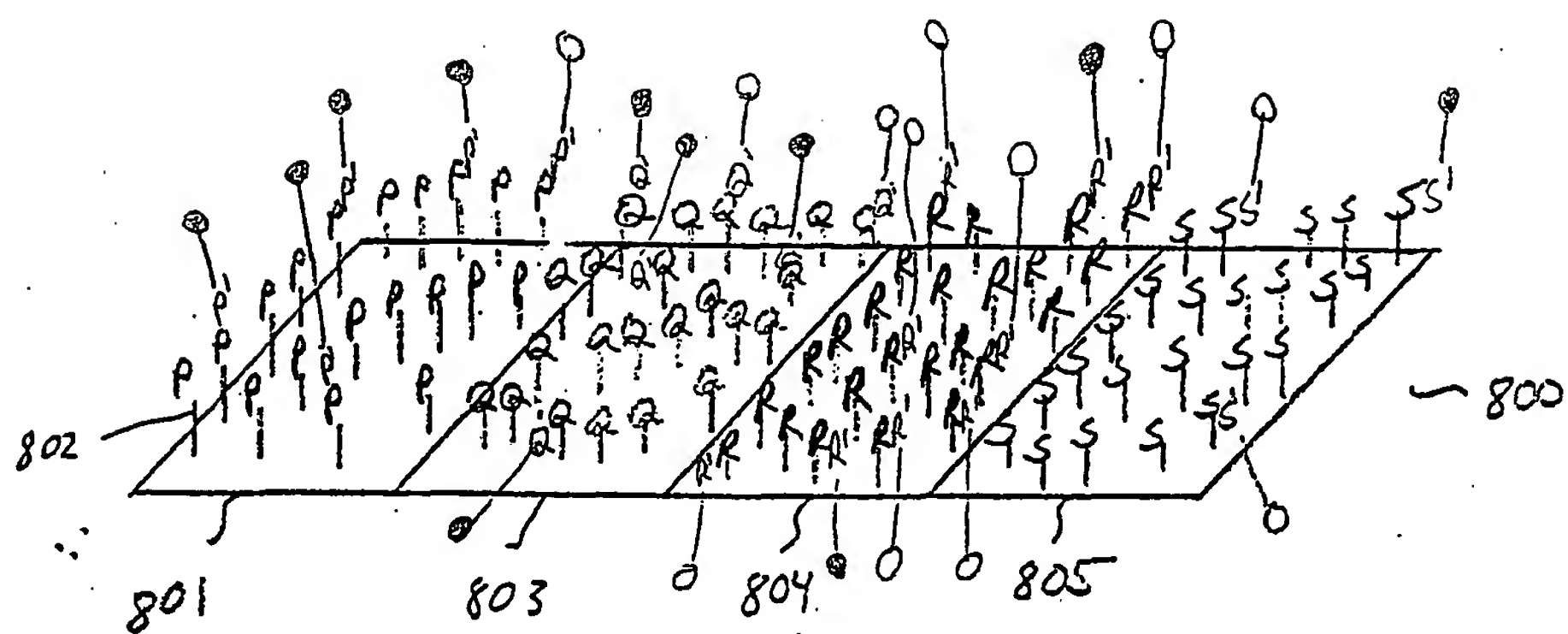


Figure 8C



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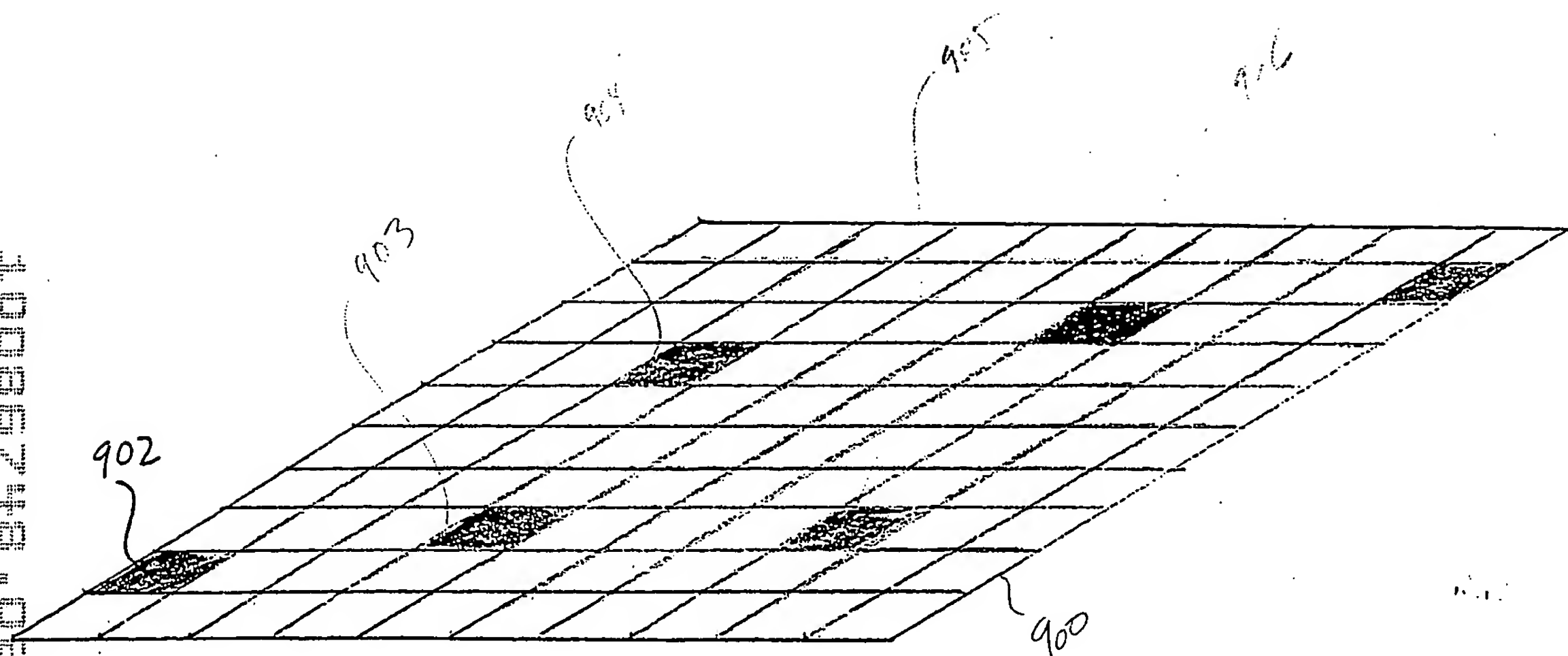
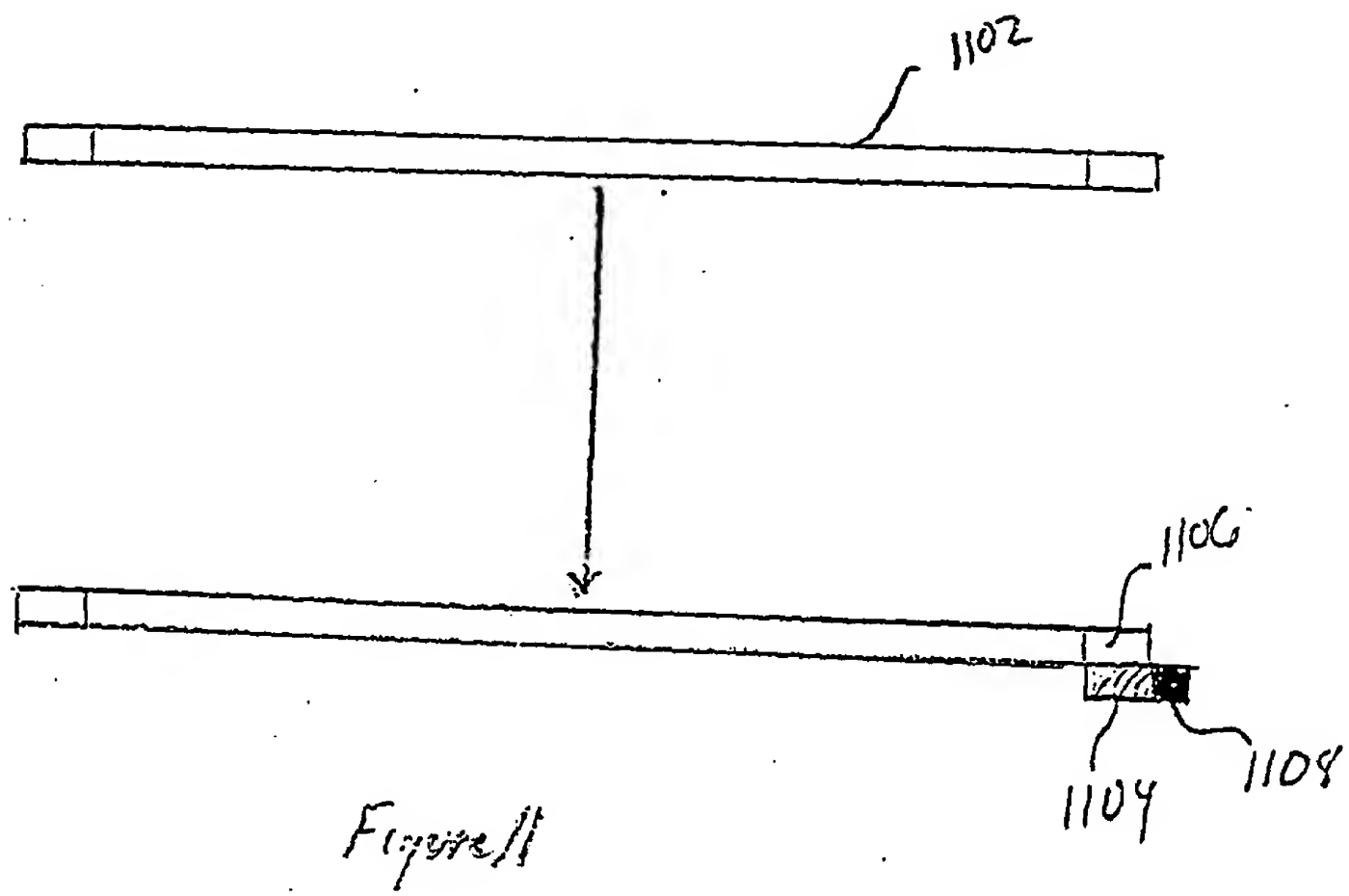
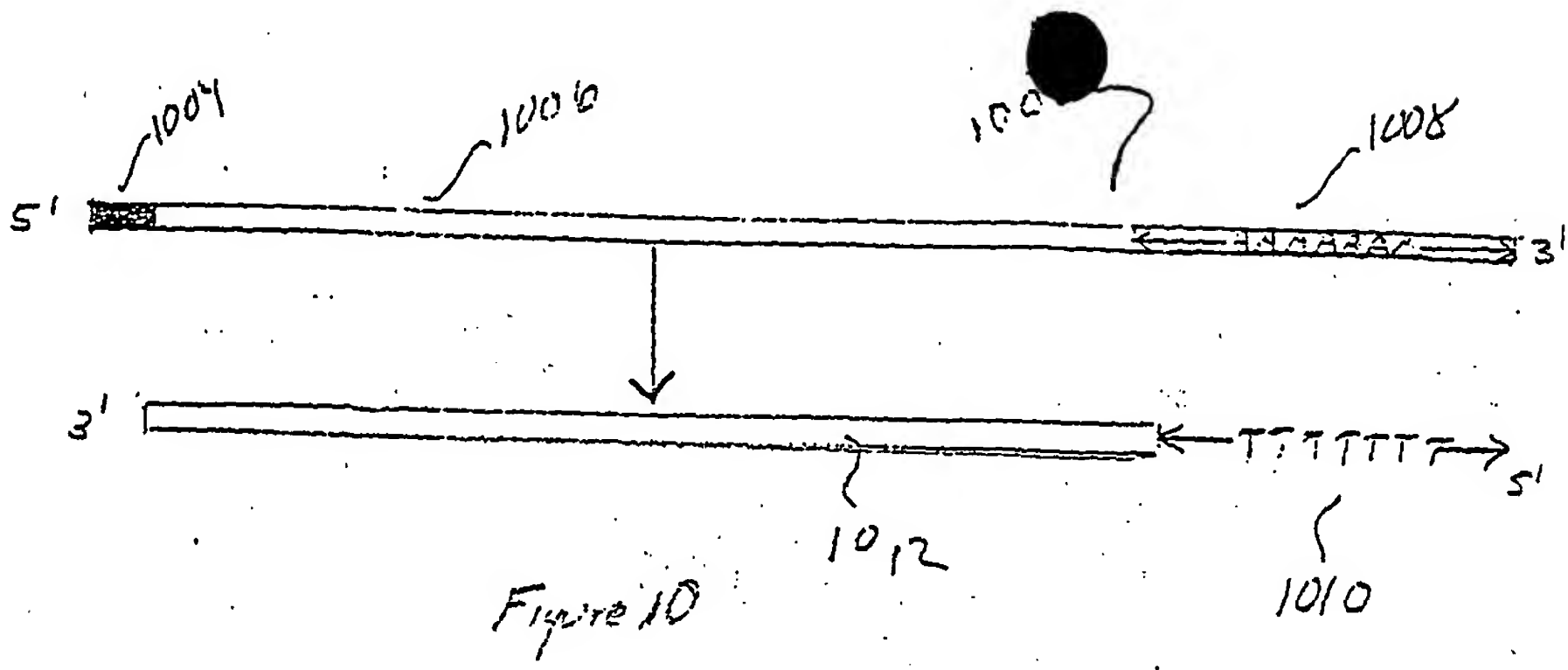


Figure 9



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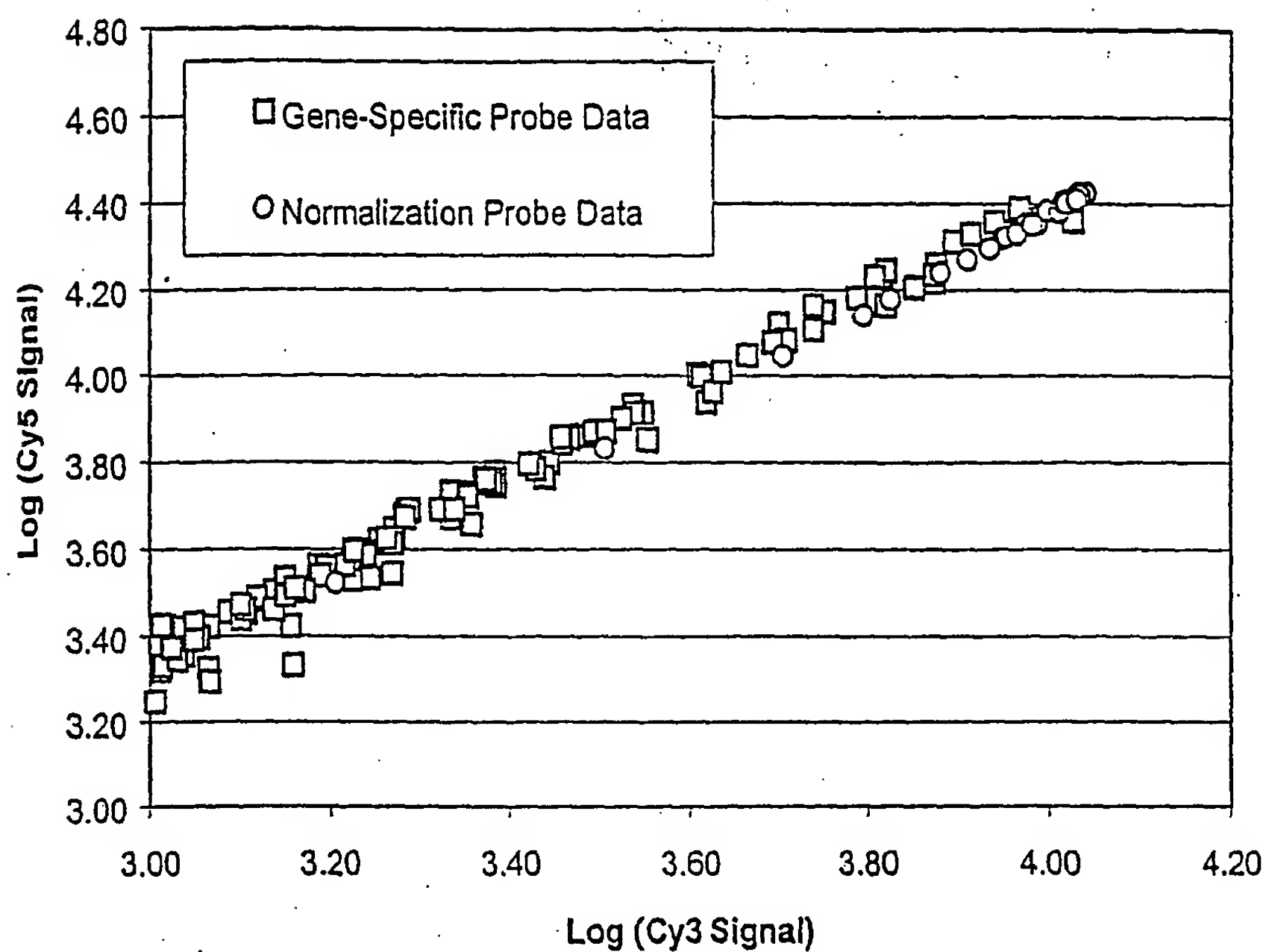


Figure 12

209220 3429801

1301

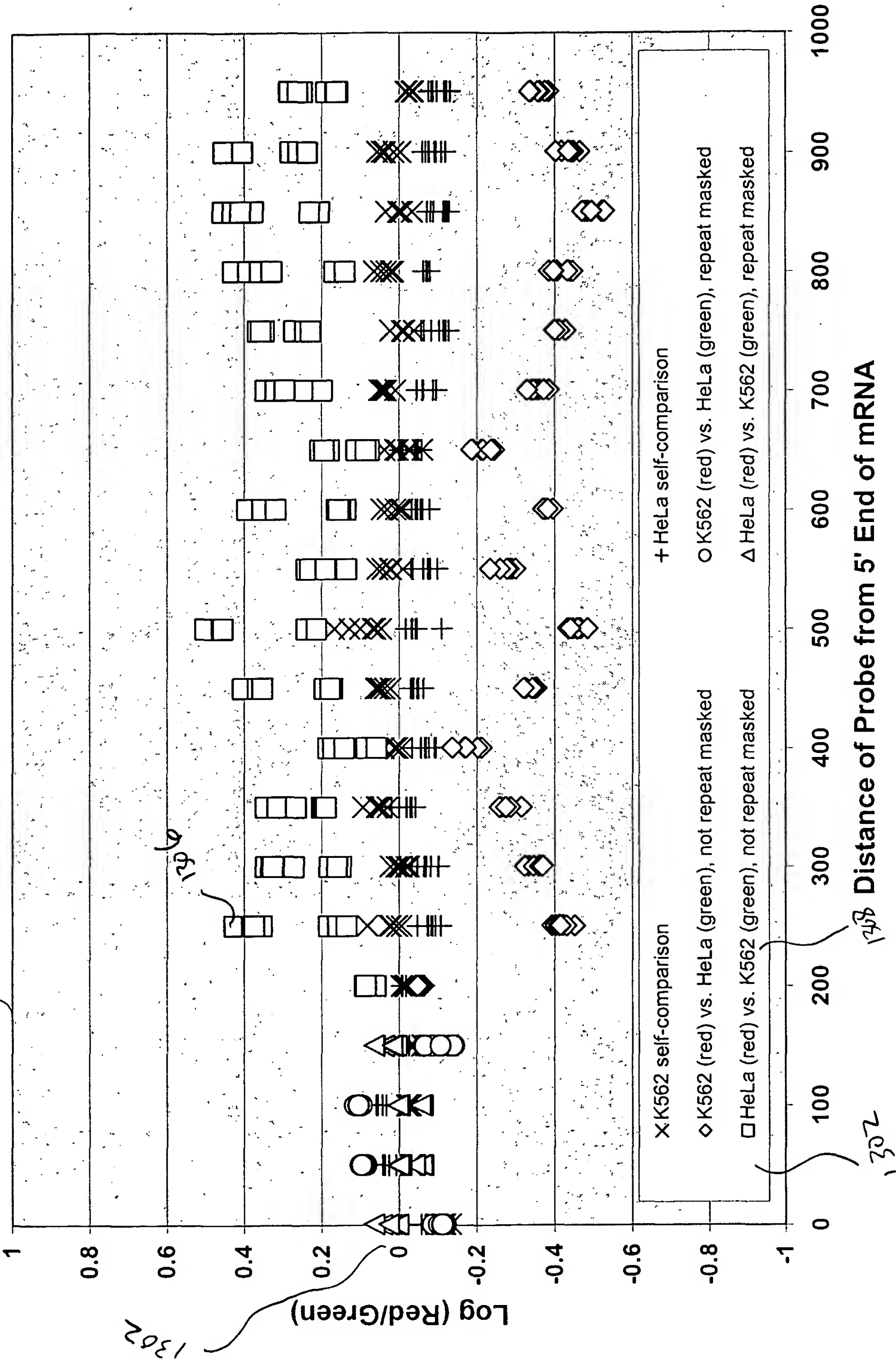


Figure 13

203220" 2429907

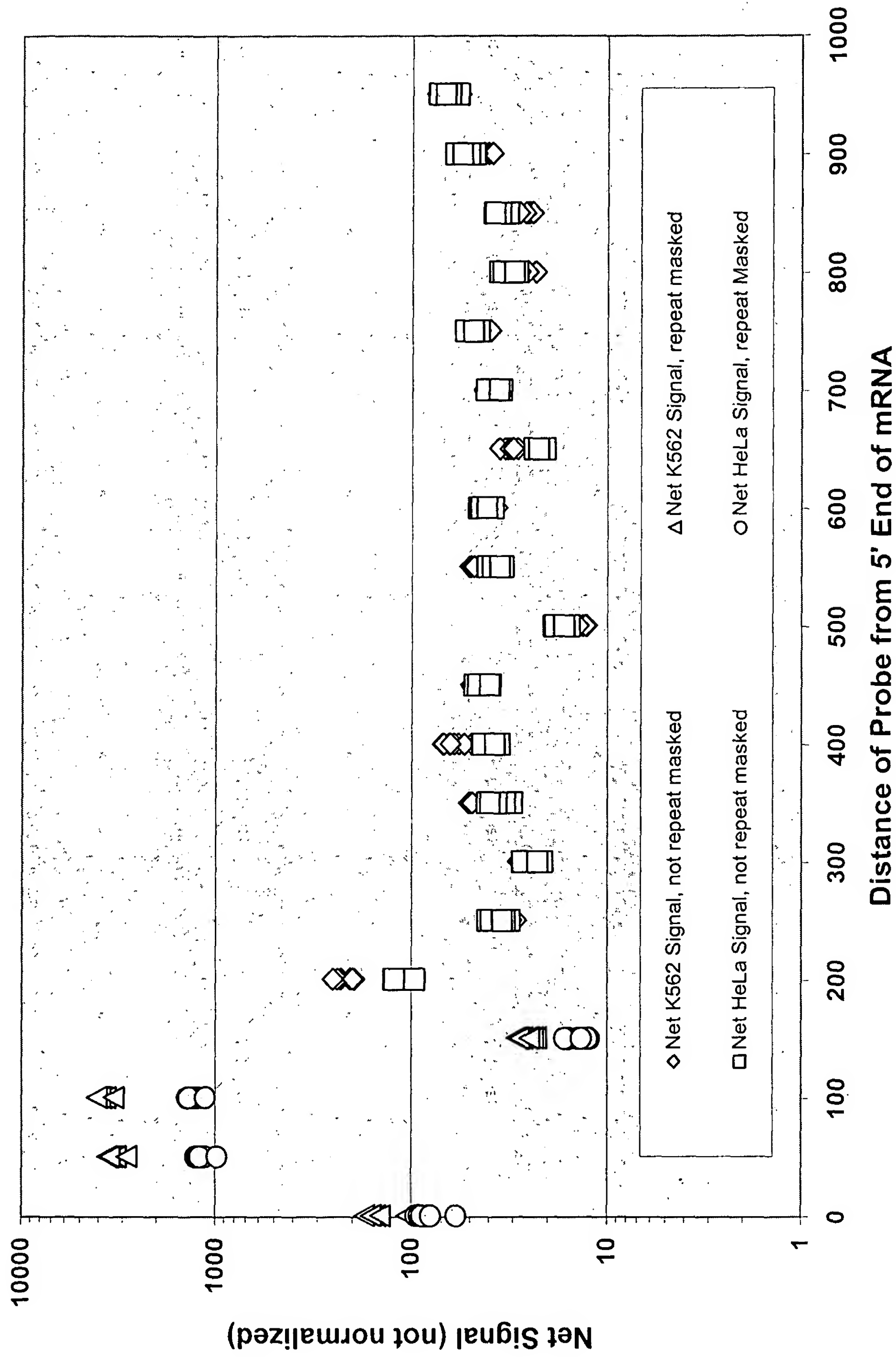


Figure 14

203220" 84298001

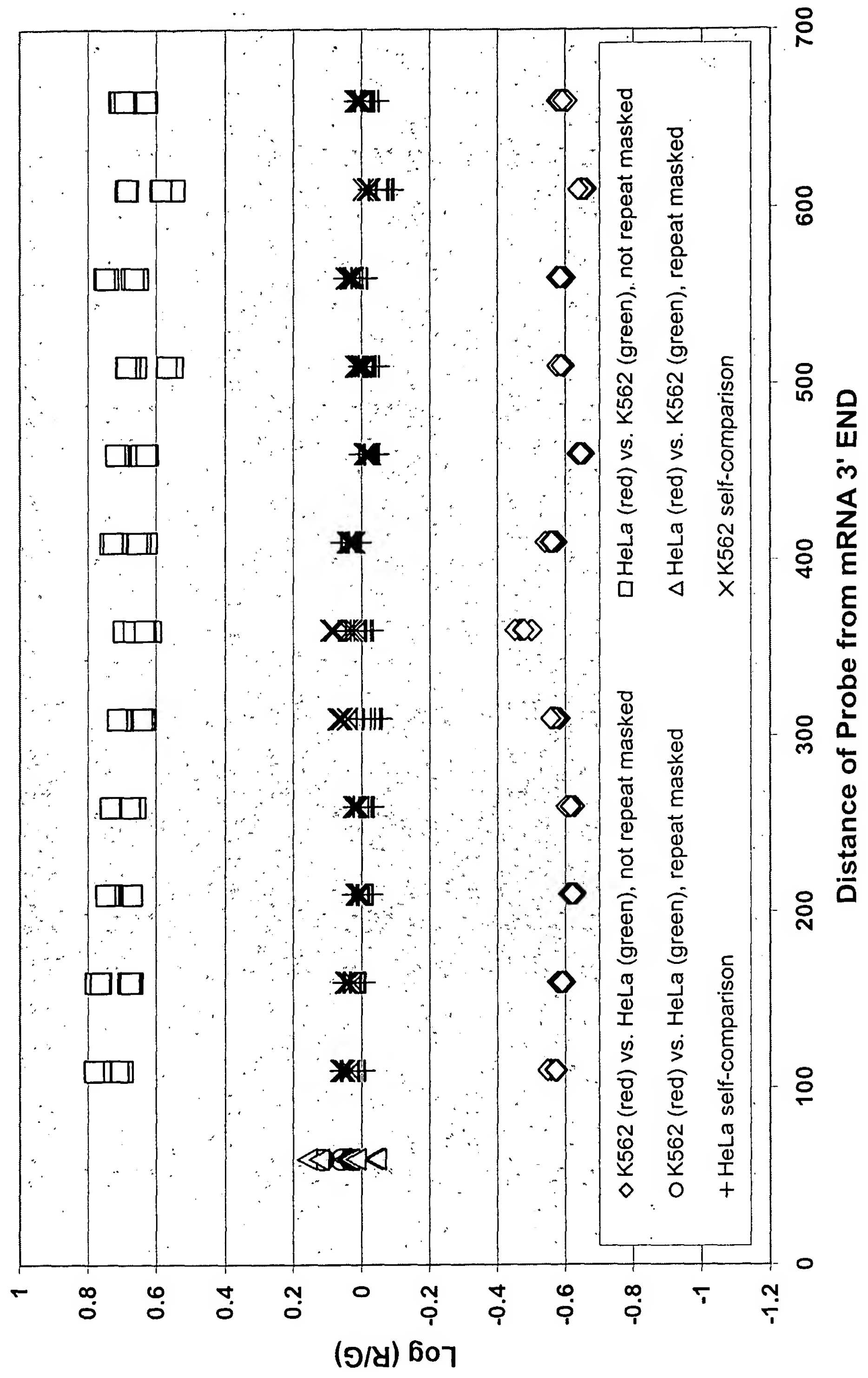


Figure 15